

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-58 (Canceled).

Claim 59 (Currently Amended): A biometric pattern detecting device comprising:

a light source unit configured to emit a near infra-red light to be reflected or scattered in a part of body;

a detecting unit configured to detect an image of the near infra-red light reflected or scattered in the part of body by the light source unit and generate a biometric pattern using the detected image; and

a shield which prevents ~~the near infra-red~~ light scattered in a shallow portion of the body from reaching the detecting unit by limiting an aperture of an imaging optical system of the detecting unit,

wherein the light source unit is set in a horizontal direction or a horizontally slanted direction with respect to the part of body and the detecting unit is set in a vertical direction or a vertical slanted direction with respect to the part of body, so that the light source unit and the detecting unit are non-coaxial with one another.

Claim 60 (Currently Amended): The biometric pattern detecting device according to Claim 59, wherein the detecting unit detects the image of the near infra-red light reflected or scattered in the body on the different position from the position of the light emitted by the light source unit.

Claim 61 (Previously Presented): The biometric pattern detecting device according to Claim 59, wherein the part of body is a finger or a hand.

Claim 62 (Previously Presented): The biometric pattern detecting device according to Claim 59, wherein the biometric pattern is a pattern of blood vessels.

Claim 63 (Canceled).

Claim 64 (Previously Presented): The biometric pattern detecting device according to Claim 59, further comprising:

a guide unit set between the detecting unit and the part of body.

Claim 65 (Currently Amended): A personal authentication device comprising:

a light source unit configured to emit a near infra-red light to be reflected or scattered in a part of body;

a detecting unit configured to detect an image of the near infra-red light reflected or scattered in the part of body by the light source unit and for generating a biometric pattern using the detected image;

a shield which prevents ~~the near infra-red~~ light scattered in a shallow portion of the body from reaching the detecting unit by limiting an aperture of an imaging optical system of the detecting unit,

a storage unit configured to store a biometric pattern; and

an authentication unit configured to perform an authentication process by comparing the biometric pattern generated by the detecting unit with the biometric pattern stored by the storage unit,

wherein the light source unit is set in a horizontal direction or a horizontally slanted direction with respect to the part of body and the detecting unit is set in a vertical direction or

a vertical slanted direction with respect to the part of body, so that the light source unit and the detecting unit are non-coaxial with one another.

Claim 66 (Currently Amended): The personal authentication device according to Claim 65, wherein the detecting unit detects the image of the near infra-red light reflected or scattered in the body on the different position from the position of the light emitted by the light source unit.

Claim 67 (Previously Presented): The personal authentication device according to Claim 65, wherein the part of body is a finger or a hand.

Claim 68 (Previously Presented): The personal authentication device according to Claim 65, wherein the biometric pattern is a pattern of blood vessels.

Claim 69 (Canceled).

Claim 70 (Previously Presented): The personal authentication device according to Claim 65, further comprising:

a guide unit is set between the detecting unit and the part of body.

Claim 71 (Currently Amended): A method of performing personal authentication, comprising:

emitting from a light source a near infra-red light to be reflected or scattered in a part of body;

detecting with a detector an image of the near infra-red light reflected or scattered in the part of body;

preventing using a shield ~~the near infra-red~~ light scattered in a shallow portion of the body from reaching the detecting unit by limiting an aperture of an imaging optical system of the detector;

generating a biometric pattern using the detected image; and

performing an authentication process by comparing the generated biometric pattern with a stored biometric pattern,

wherein the emitted light is emitted from a horizontal direction or a horizontally slanted direction with respect to the part of body and the image of the light reflected is detected in a vertical direction or a vertical slanted direction with respect to the part of body, so that the emitted light and the detected image are non-coaxial with one another.

Claim 72 (Previously Presented): The method of Claim 71, wherein the part of body is a finger or a hand.

Claim 73 (Previously Presented): The method of Claim 71 wherein the biometric pattern is a pattern of blood vessels.

Claim 74 (Canceled).